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10/697,278	10/31/2003	Shigeki Yabu	02910.000098	8435
5514 7590 04/04/2007 FITZPATRICK CELLA HARPER & SCINTO			EXAMINER	
30 ROCKEFEI	LLER PLAZA	SCHVIO	NGUYEN, JENNIFER T	
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Please find below and/or attached an Office communication concerning this application or proceeding.

Caplemental	Application No.	Applicant(s)		
Supplemental	10/697,278	YABU ET AL.		
Notice of Allowability	Examiner	Art Unit		
	Jennifer T. Nguyen	2629		
The MAILING DATE of this communication appear All claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RI of the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this ap or other appropriate communication GHTS. This application is subject to	oplication. If not included n will be mailed in due course. THIS		
1. This communication is responsive to 3/9/07				
2. The allowed claim(s) is/are <u>1-10 and 12-22</u> .	•			
3.				
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO/SB/08), Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	9.	y (PTO-413)		

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EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Malpede on 3/26/07.

Please amend Claims 1, 13, 15, 17, 18 and 22 as follows.

1. (Currently Amended) A display device comprising:

a display panel having cathodes, gates, and anodes an anode in which said cathodes and said gates are connected in a matrix manner;

an electron emitter which emits electrons in a state where a voltage is applied only between said cathodes and said anodes anode and which is provided with said cathode cathodes;

in which display of a plurality of pixels in said display panel is performed under a dark state by stopping electron emission from said electron emitter for said anodes anode by applying a stop voltage between said cathodes and said gates, and control means which controls operation of a circuit for driving a display panel in such a way that a potential of each of said anodes anode becomes not less than a threshold value potential by which a potential of each of said anodes anode can perform electron emission from said electron emitter after a predetermined time elapse from starting of application of a drive voltage which provides a specified display state or the stop voltage

between said cathodes and said gates when a display starting signal is generated.

13. (Currently Amended) A drive control method for a display device having a display panel having cathodes, gates, and anodes an anode in which said cathodes and said gates are connected in a matrix manner, and an electron emitter which emits electrons in a state where a voltage is applied only between said cathodes and said anodes anode and which is provided with said eathode cathodes, in which display of pixels of said display panel is performed under a dark state by stopping electron emission from said electron emitter for said anodes anode by applying a stop voltage between said cathodes and said gates,

said method comprising:

an application step of applying the stop voltage or a drive voltage which provides a specified display state between said cathodes and said gates when a display starting signal is generated; and

an anode voltage supplying step of allowing a potential of said anode not to be less than a threshold value potential which emits electrons from said electron emitter after a predetermined time elapse from starting of said application step.

15. (Currently Amended) A display device comprising:

a display panel having cathodes, gates, and anodes an anode respectively connected to a cathode driving circuit, a gate driving circuit, and an anode power source circuit, in which said cathodes and said gates are connected in a matrix manner; an

electron emitter which emits electrons in a state where a voltage is applied only between said eathode cathodes and said anode, said electron emitter being provided with said eathode cathodes, in which display of a plurality of pixels in said display panel is performed under a dark state by stopping electron emission from said electron emitter to said anodes anode by applying a stop voltage between said cathodes and said gates; and

a control circuit which controls said cathode driving circuit, said gate driving circuit, and said anode power source circuit,

wherein said control circuit outputs a display starting signal to said cathode driving circuit, said gate driving circuit, and said anode power source circuit, and controls operations of circuits for driving the display panel in such a way that a potential of each of said anodes anode becomes not less than a threshold value potential by which said potential of each of said anodes anode can perform electron emission from said electron emitter after a predetermined time elapse from starting of application of a drive voltage which provides a specified display state or the stop voltage between said cathodes and said gates after a predetermined time elapse from a time at which the display starting signal is outputted after potentials of said cathode and said gate are kept at a same potential.

17. (Currently Amended) A drive control method of a display device having a display panel having cathodes, gates, and anodes an anode in which said cathodes and said gates are connected in a matrix manner; an electron emitter which emits electrons in a state where a voltage is applied only between said cathodes and said anodes anode, said electron emitter being provided with said cathode, in which display of a plurality of

pixels in said display panel is performed under a dark state by stopping electron emission from said electron emitter to said anodes anode by applying a stop voltage between said cathodes and said gates, said method comprising:

a step of generating a display starting signal;

an application step of applying a drive voltage which provides said stop voltage or a specified display state between said cathodes and said gates after a predetermined time elapse from a time at which the display starting signal is generated after potentials of said eathode cathodes and said gates are kept at a same potential; and

an anode potential supplying step of allowing a potential of each of said anodes anode not to be less than a threshold value potential which emits electrons from said electron emitter after a predetermined time elapse from starting of said application step.

18. (Currently Amended) A display device comprising:

a display panel having cathodes, gates, and anodes an anode respectively connected to a cathode driving circuit, a gate driving circuit, and an anode power source circuit, in which said cathodes and said gates are connected in a matrix manner; an electron emitter which emits electrons in a state where a voltage is applied only between said eathode cathodes and said anode, said electron emitter being provided with said eathode cathodes, in which display of a plurality of pixels in said display panel is performed under a dark state by stopping electron emission from said electron emitter to said anodes anode by

applying a stop voltage that a potential of each of said gates is lower than a potential of each of said cathodes between said cathodes and said gates; and a control circuit which controls said cathode driving circuit, said gate

driving circuit, and said anode power source circuit,

wherein said control circuit outputs a display starting signal to said cathode driving circuit, said gate driving circuit, and said anode power source circuit, and controls operations of circuits for driving the display panel in such a way that a potential of -each of said anodes anode becomes not less than a threshold value potential necessary to perform electron emission from said electron emitter by the potential of -each of said anodes anode after a predetermined time elapse from starting of application of the stop voltage between said cathodes and said gates of all pixels of said display panel at the same time after a predetermined time elapse from a time at which the display

starting signal is outputted after potentials of of said eathode cathodes

and said gate gates are kept at a same potential.

22. (Currently Amended) A drive control method of a display device having a display panel having cathodes, gates, and <u>anodes an anode</u>, in which said cathodes and said gates are connected in a matrix manner; an electron emitter which emits electrons in a state where a voltage is applied only between and said <u>eathode</u> <u>cathodes</u> said <u>anodes</u> anode, said electron emitter being provided with said <u>eathode cathodes</u>, in which display of each of pixels is performed under a dark state by stopping electron emission from said electron emitter to said <u>anodes</u>

anode by applying a stop voltage that a potential of each of said gates is lower than a potential of each of said cathodes between and said gates, said method comprising:

a step of generating a display starting signal;

an application step of applying a stop voltage between said cathodes and said gates of all pixels of said display panel at the same time after a predetermined time elapse from a time at which the display starting signal is generated after potentials of said eathode cathodes and said gate gates are kept at a same potential; and

an anode potential supplying step of allowing a potential of said anodes anode not to be less than a threshold value potential necessary to perform electron emission from said electron emitter after a predetermined time elapse from starting of said application step

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Jennifer T. Nguyen whose telephone number is 571-272-7696. The examiner can normally be reached on Mon-Fri: 9:00am-5:30pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard A. Hjerpe can be reached on 571-272-7691. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Jennifer Nguyen 3/26/07

RICHARD HJERPE SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 2600